

# SCHOOL BASED ASSESSMENT TEST

STD. 7 – 007

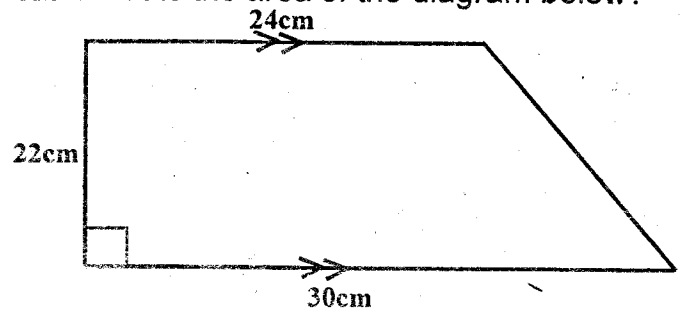
## MATHEMATICS

Time: 2 Hours

- Which one of the following numbers is sixty seven million, four hundred and seventy six thousand nine hundred and thirty four?  
 A. 67476934                      B. 6740076934  
 C. 674076934                    D. 607476934
- What is the place value of digit 7 in the product of 105 and 7?  
 A. Ones                              B. Hundreds  
 C. Thousands                       D. Millions
- Which one of the following numbers is divisible by 11?  
 A. 4072                                B. 26462  
 C. 93786                              D. 93457
- What is the value of:  

$$\frac{16(426 - 326) + 32 \times 6}{2 \times 8} ?$$
  
 A. 112                                  B. 612  
 C. 1200                                D. 9792
- What is the total value of digit 6 in the number 8.0564?  
 A. Hundredths                      B. Thousandths  
 C. 0.06                                D. 0.006
- Work out:  $\frac{\sqrt{324} + 16^2}{\sqrt{64}}$   
 A.  $24\frac{1}{2}$                                 B.  $12\frac{1}{8}$   
 C.  $26\frac{1}{5}$                                 D.  $34\frac{1}{4}$
- Simplify:  $4\frac{1}{5} + (\frac{1}{6} \times \frac{4}{5} + 1\frac{2}{3})$   
 A.  $\frac{47}{25}$                                 B.  $\frac{43}{5}$   
 C.  $4\frac{19}{45}$                                D.  $3\frac{3}{5}$
- What is the number 974369 rounded off to the nearest ten thousands?  
 A. 970000                            B. 980000  
 C. 974000                            D. 975000

- Hesbon paid Sh. 24000 for a TV set after getting a discount of 20%. How much discount was he allowed?  
 A. Sh. 6000                          B. Sh. 4800  
 C. Sh. 28800                        D. Sh. 30000
- What is the next number in the sequence below? 121, 144, 169, 196, \_\_\_\_\_?  
 A. 215                                  B. 225  
 C. 256                                  D. 279
- Work out:  $31280 \div 23 =$   
 A. 1306                                B. 1360  
 C. 1840                                D. 1260
- What is the area of the diagram below?

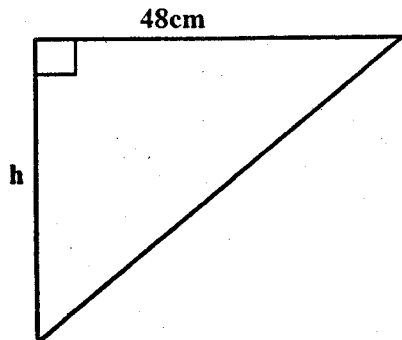


- $76\text{cm}^2$
  - $594\text{cm}^2$
  - $660\text{cm}^2$
  - $1188\text{cm}^2$
- Mwende left her home at 5.30 a.m. and arrived in town at 2.15 p.m. How long was her journey?  
 A. 3 hrs 15 min                      B. 8 hrs 45 min  
 C. 6 hrs 45 min                      D. 4 hrs 15 min
- What is the sum of the GCD and the LCM of 13, 26 and 78?  
 A. 91    B. 78                          C. 26                                      D. 13
- What is the value of:  $\frac{4.2 \times 2.4}{8.4}$   
 A. 12                                      B. 1.2  
 C. 0.12                                   D. 0.012
- Convert  $3.6\text{m}^3$  to  $\text{cm}^3$   
 A.  $360\text{cm}^3$                             B.  $3600\text{cm}^3$

C.  $36000\text{cm}^3$

D.  $3600000\text{cm}^3$

17. The area of the triangle below is  $624\text{cm}^2$ .



What is its height?

A. 26cm

B. 24cm

C. 23cm

D. 21cm

18. Simplify:  $3(3x + 2y) + 4(3x - y)$

A.  $21x + y$

B.  $21x + 10y$

C.  $21x - 10y$

D.  $21x + 2y$

19. Lucy shared some money among her

three daughters. The first one got  $\frac{1}{6}$ , the second one  $\frac{1}{4}$  and the third  $\frac{1}{3}$ . If she had Sh. 24000, how much was she left with?

A. Sh. 180000

B. Sh. 80000

C. Sh. 30000

D. Sh. 6000

20. What is the value of q in

$$4(2q + 6) - 10 = 30?$$

A. 2

B.  $5\frac{1}{2}$

C. 8

D. 16

21. A plane covered 200 metres in 1 minute.

What was its speed?

A. 200 m/s

B. 55.67 m/s

C. 20 m/s

D. 3.3 m/s

22. A shopkeeper bought 9 tonnes of rice and repacked it into 2 kg packets. How many packets of rice did he obtain?

A.  $4\frac{1}{2}$

B. 45

C. 450

D. 4500

23. Using a ruler and a pair of compass, construct triangle XYZ such that  $XY = 5\text{cm}$ ,  $YZ = 6\text{cm}$  and angle  $XYZ = 30^\circ$ .

What is the measure of line XZ?

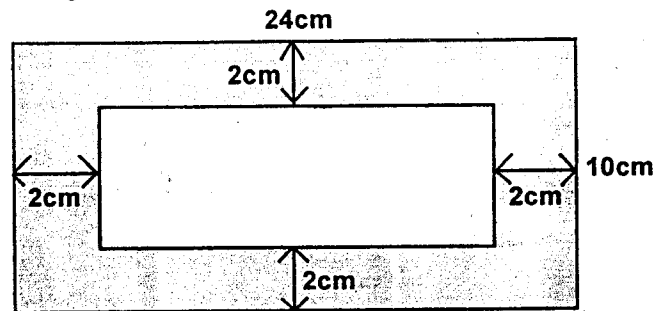
A. 6cm

B. 5cm

C. 4cm

D. 3cm

24. What is the area of the shaded part in the figure below?



A.  $120\text{cm}^2$

B.  $182\text{cm}^2$

C.  $240\text{cm}^2$

D.  $360\text{cm}^2$

25. Pauline sold a dress for Sh. 840 and made a profit of 20%. How much had she bought the dress?

A. Sh. 1008

B. Sh. 700

C. Sh. 168

D. Sh. 140

26. Mebel bought the following items from a shop:

A bottle of water for Sh. 35

Twenty six loaves of bread @ Sh. 30

3 crates of soda @ Sh. 480

Six half litres of juice @ Sh. 40

If she paid the bill with 2-one thousand shilling notes, how much more should she add to clear the bill?

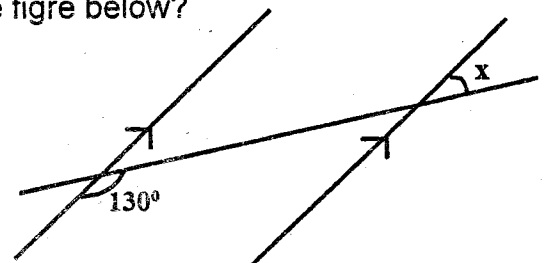
A. Sh. 2495

B. Sh. 595

C. Sh. 505

D. Sh. 495

27. What is the size of the angle marked x in the figure below?



A.  $50^\circ$

B.  $60^\circ$

C.  $100^\circ$

D.  $170^\circ$

28. Arrange the fractions below in an ascending order:

$\frac{3}{4}, \frac{5}{6}, \frac{2}{3}, \frac{5}{6}$

- A.  $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}, \frac{5}{8}$       B.  $\frac{5}{8}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$   
 C.  $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}, \frac{5}{8}$       D.  $\frac{3}{4}, \frac{5}{6}, \frac{2}{3}, \frac{5}{8}$

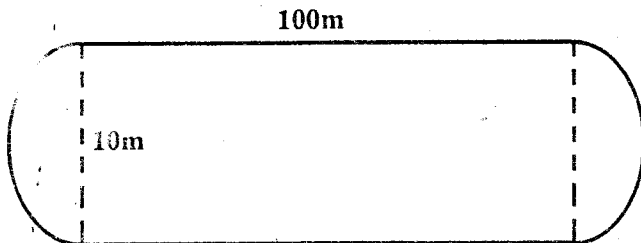
29. Three bells ring at intervals of 30 min, 45 min and 60 min. If they ring together at 7.30 a.m, when will they ring together again?

- A. 9.16 a.m      B. 9.30 a.m  
 C. 10.30 a.m      D. 8.03 a.m

30. Express 0.375 as a percentage

- A. 375%      B. 37.5%  
 C. 3.75%      D. 0.00375%

31. Korir ran round the track below once



What distance did he cover?

(Take  $\pi = 3.14$ )

- A. 282.8m      B. 262.8m  
 C. 231.4m      D. 131.4m

32. What is the sum of the mode and the mean of the following numbers:

8, 2, 4, 6, 2, 4, 2

- A. 2      B. 4      C. 6      D. 28

33. A trader borrowed Sh. 20000 from a bank which charged simple interest at the rate of 15% p.a. How much did he pay at the end of 3 years?

- A. Sh. 29000      B. Sh. 9000  
 C. Sh. 3000      D. Sh. 23000

34. Convert 108 km/hr to m/s

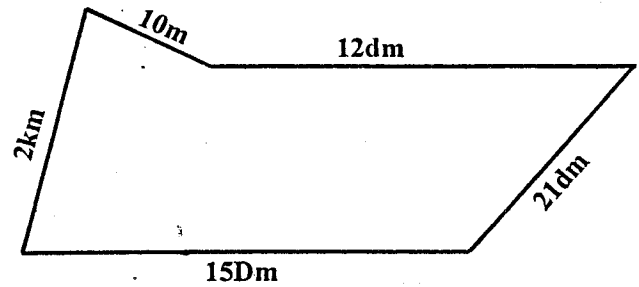
- A. 30m/s      B. 25m/s  
 C. 20m/s      D. 388.8m/s

35. The scale used on a map is 1:10 000.

What is the real length a road which measures 20cm long on a map?

- A. 0.5m      B. 5m  
 C. 200m      D. 2000m

36. What is the perimeter of the figure below in metres?



- A. 60m      B. 2161.41m  
 C. 2490m      D. 216.141m

37. There are 60 pupils in Std 7 at Karapul Primary School. If the number of boys is 36, what is the ratio of girls to boys?

- A. 3:2      B. 2:3  
 C. 3:5      D. 5:3

38. A sales lady is paid a commission of 5% of the goods sold. In one month she sold goods worth Sh. 60 000. How much money did she earn that month?

- A. Sh. 57000      B. Sh. 63000  
 C. Sh. 3000      D. Sh. 2000

39. What is the value of  $\frac{3b + 2a}{c}$

given that  $a = 3$ ,  $b = 4$  and  $c = 2$ ?

- A. 6      B. 9  
 C. 12      D. 18

40. The area of a square room is 961m<sup>2</sup>.

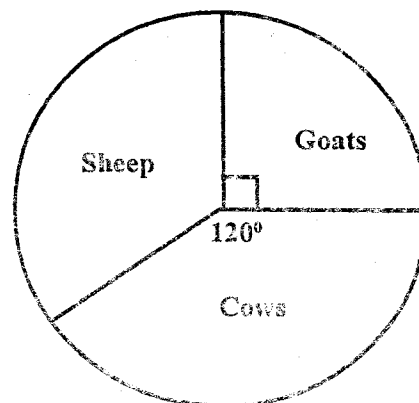
What is the perimeter of the room?

- A. 31m      B. 62m  
 C. 124m      D. 134m

41. Express 42.3895 to the nearest hundredths

- A. 42.389      B. 42.4  
 C. 42.390      D. 42.39

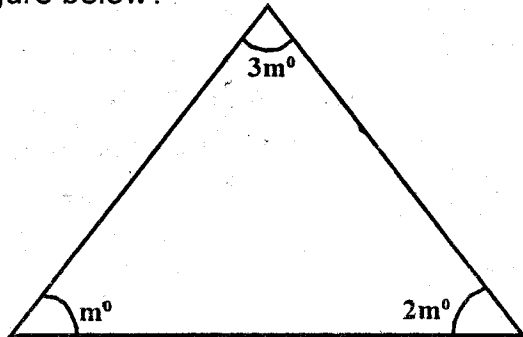
42. The pie chart below shows the number of livestock in a farm



The total number of animals in the farm is 72. How many sheep are there in the farm?

- A. 150                      B. 30  
C. 24                         D. 18

43. What is the size of the largest angle in the figure below?

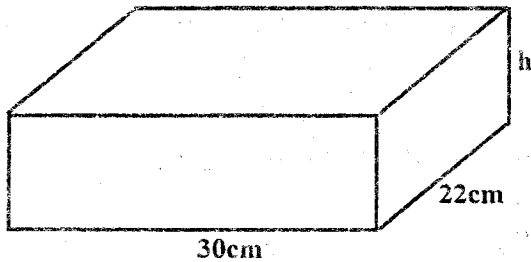


- A.  $180^\circ$                       B.  $90^\circ$   
C.  $60^\circ$                         D.  $30^\circ$

44. 6 people working at the same rate can finish digging a garden in 12 days. How long will 4 people take to finish the same work?

- A. 8 days                      B. 10 days  
C. 14 days                     D. 18 days

45. The volume of the figure below is  $13200\text{cm}^3$



What is its height?

- A. 20cm                        B. 52cm  
C. 200m                       D. 660cm

46. What is the value of P in the magic square below?

P	1	6
3	5	
4	9	

- A. 2                              B. 7  
C. 8                              D. 15

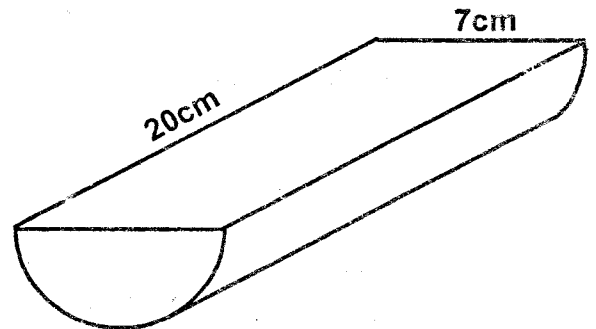
47. Work out:  $12 \div 3 + 8 \times 5 - 9 \div 3 \times 10 - 1$

- A. 12                            B. 13  
C. 15                            D. 171

48. Which of the following sets of measurements will form a right-angled triangle?

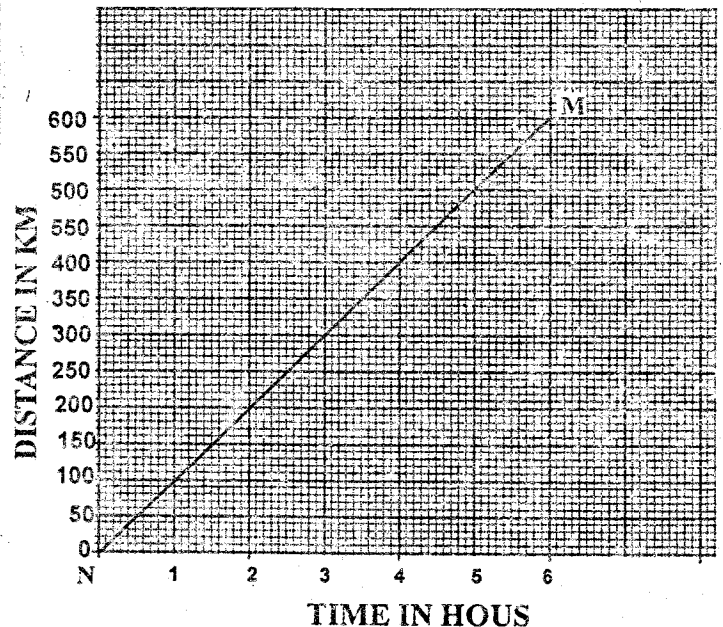
- A. 5cm, 12cm, 9cm  
B. 9cm, 13cm, 15cm  
C. 9cm, 12cm, 16cm  
D. 2.5cm, 6cm, 6.5cm

49. What is the volume of the trough drawn below? (Take  $\pi = \frac{22}{7}$ )



- A.  $220\text{cm}^3$                       B.  $440\text{cm}^3$   
C.  $385\text{cm}^3$                      D.  $770\text{cm}^3$

50. The graph below shows how a motorist travelled from town N to town M



What was his average speed for the whole journey?

- A. 600 km/hr                      B. 100 km/hr  
C. 50 km/hr                        D. 6 km/hr